

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  WW/3-22354	<b>FOR FURTHER ACTION</b>  see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No.  PCT/EP2005/002080	International filing date (day/month/year)  28/02/2005	(Earliest) Priority Date (day/month/year)  12/03/2004
Applicant  CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/002080

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C02F11/12 C02F11/14 C02F1/56 B01D21/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C02F B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/035800 A1 (WEIR STEVEN) 26 February 2004 (2004-02-26) paragraphs '0018!', '0024!', '0027!; claims -----	1-13
X	US 4 479 879 A (HASHIMOTO ET AL) 30 October 1984 (1984-10-30) claim 1; tables 1,2 -----	1-13
X	WO 02/072205 A (KRONOS TITAN GMBH & CO. OHG; BONATH, HANS-JOERG; BOMBECK, GEORG) 19 September 2002 (2002-09-19) page 4, line 9 - line 20; claims; figure -----	1-13
X	US 4 382 864 A (HASHIMOTO ET AL) 10 May 1983 (1983-05-10) column 3, line 25 - column 4, line 15; examples 1,5 ----- -/-	1-13



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

20 May 2005

Date of mailing of the international search report

30/05/2005

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## INTERNATIONAL SEARCH REPORT

International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 281 320 A (RITTERSHAUS ET BLECHER GMBH) 5 March 1976 (1976-03-05) the whole document -----	1-13
Y	WO 93/02967 A (ALLIED COLLOIDS LIMITED) 18 February 1993 (1993-02-18) page 8, line 11 - line 22; claims -----	1-13
A	US 5 433 865 A (LAURENT ET AL) 18 July 1995 (1995-07-18) the whole document -----	1-13

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002080

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2004035800	A1	26-02-2004	AU 2633802 A	11-06-2002
			CA 2429476 A1	06-06-2002
			EP 1339644 A2	03-09-2003
			WO 0244093 A2	06-06-2002
			ZA 200303968 A	23-04-2004
US 4479879	A	30-10-1984	JP 1518182 C	07-09-1989
			JP 58184000 A	27-10-1983
			JP 60038200 B	30-08-1985
			DE 3313162 A1	10-11-1983
			GB 2118926 A ,B	09-11-1983
WO 02072205	A	19-09-2002	DE 10111895 A1	19-09-2002
			CA 2438311 A1	19-09-2002
			WO 02072205 A2	19-09-2002
			EP 1368503 A2	10-12-2003
			JP 2004528162 T	16-09-2004
			MX PA03007247 A	04-12-2003
			US 2004136889 A1	15-07-2004
US 4382864	A	10-05-1983	JP 57127500 A	07-08-1982
			JP 1003159 B	19-01-1989
			JP 57130599 A	13-08-1982
			JP 57130600 A	13-08-1982
			JP 1426323 C	25-02-1988
			JP 57132509 A	16-08-1982
			JP 62035836 B	04-08-1987
			JP 57135096 A	20-08-1982
			JP 1475007 C	18-01-1989
			JP 57032797 A	22-02-1982
			JP 59003240 B	23-01-1984
			DE 3131411 A1	24-06-1982
			GB 2082163 A ,B	03-03-1982
			BE 884864 A1	23-02-1981
FR 2281320	A	05-03-1976	DE 2438165 A1	19-02-1976
			DE 2515162 A1	21-10-1976
			FR 2281320 A1	05-03-1976
			IT 1038550 B	30-11-1979
			NL 7506331 A	10-02-1976
			SE 7506088 A	09-02-1976
			CH 604814 A5	15-09-1978
			JP 51117450 A	15-10-1976
			US 4105558 A	08-08-1978
WO 9302967	A	18-02-1993	AT 172697 T	15-11-1998
			AU 664851 B2	07-12-1995
			AU 2380092 A	02-03-1993
			BR 9206329 A	04-04-1995
			CA 2114436 A1	18-02-1993
			DE 69227466 D1	03-12-1998
			DE 69227466 T2	18-03-1999
			DK 641293 T3	12-07-1999
			EP 0641293 A1	08-03-1995
			ES 2123566 T3	16-01-1999
			FI 940437 A	28-01-1994
			WO 9302967 A1	18-02-1993
			JP 3313711 B2	12-08-2002

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002080

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9302967	A	JP 6509742 T KR 213669 B1 MX 9204515 A1 NO 940335 A US 5681480 A ZA 9205787 A	02-11-1994 02-08-1999 01-04-1993 01-02-1994 28-10-1997 02-08-1993
US 5433865	A	18-07-1995 CA 2145939 A1	01-10-1995